

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-23-81	
Company Cotton Petroleum Corporation			Connection El Paso		
Pool Undesignated Chacra			Formation Chacra		Unit
Completion Date 1-16-81		Total Depth 4120	Plug Back TD 4073		Elevation Apache
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 4120	Perforations: From 3809 To 3914	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 3953	Perforations: From open To ended	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F @	Mean Annual Temp. °F 11.5 (est.)		County Rio Arriba
L		H	Gg	% CO ₂	% N ₂
				% H ₂ S	Prover
					Meter Run
					Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F
1.	7 days		Tested through 2" orifice tester with a .750 orifice							
2.			for 24 hours on 1-16-81.				317	NCF/D		24 hrs.
3.							871		961	
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1		1-16-81	Tested 24 hours/flow rate =				317
2		1-15-81	Tested 27 hours/flow rate =				325
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____

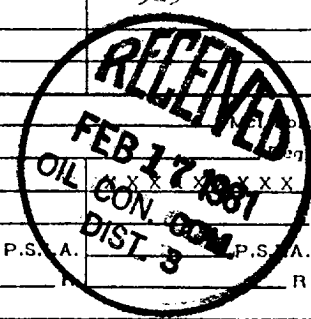
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope Θ _____	Slope, n _____
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Remarks: _____

Approved By Commission:	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Mr. Butch Cummins
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Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-23-81	
Company Cotton Petroleum Corporation				Connection El Paso		
Pool Undesignated Chacra				Formation Chacra		Unit
Completion Date 1-16-81		Total Depth 4120		Plug Back TD 4073		Elevation Apache
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 4120	Perforations: From 3809 To 3914		Well No. 26
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 3953	Perforations: From open To ended		Unit Sec. Twp. Rge. L 13 24 4
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None		County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F 11.5 (est.)		State New Mexico
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1	7 days		Tested through 2" orifice tester with a .750 orifice for 24 hours on 1-16-81.				317	NCE/D			24 hrs.
2											
3							871		961		
4											
5											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1		1-16-81	Tested 24 hours/flow rate =				317
2		1-15-81	Tested 27 hours/flow rate =				305
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2					Specific Gravity Separator Gas	XXXXXX
3					Specific Gravity Flowing Fluid	XXXXX
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

NO.	P _t ²	P _w ²	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1						
2						
3						
4						
5						

Absolute Open Flow _____ Mcfd @ 15.025 Angle of Slope θ _____ Slope, n _____			
Remarks: _____			
Approved By Commission: _____ Conducted By: Joe Elledge Calculated By: Joe Elledge Checked By: Mr. Butch Gurnins			

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-127
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-23-81	
Company Cotton Petroleum Corporation				Connection El Paso		
Pool Undesignated Chacra				Formation Chacra		Unit
Completion Date 1-16-81		Total Depth 4120		Plug Back TD 4073		Elevation Apache
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 4120	Perforations: From 3809 To 3914		Well No. 26
Tbg. Size 2.375	Wt. 4.7	d 1.095	Set At 3953	Perforations: From open To ended		Unit Sec. Twp. Rge. L 13 24 4
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None		County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 11.5 (est.)		State New Mexico
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	7 days		Tested through 2" orifice tester with a .750 orifice for 24 hours on 1-16-81. 317 MCF/D								24 hrs.
1.											
2.											
3.							871		961		
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1		1-16-81	Tested 24 hours/flow rate =				
2		1-15-81	Tested 27 hours/flow rate =				
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	XXX XXX XXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _t ²	P _w ²	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1						
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$

Absolute Open Flow _____ Mcfd @ 15.025

Angle of Slope θ _____

Slope, n _____

Remarks: _____

Approved By Commission:	Conducted By: Joe Elledree	Calculated By: Joe Elledree	Checked By: Mr. Rutch Gunnins
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